

## Title (en)

Different coupling and compounding power system of electric transmission storing type.

## Title (de)

Verschiedene Kopplungs- und Verbund- Leistungssysteme vom elektrischen Übertragungs- und Speichertyp.

## Title (fr)

Différents systèmes de couplage et compoundage de puissance du type à transmission et stockage électriques.

## Publication

**EP 0666192 A1 19950809 (EN)**

## Application

**EP 94300823 A 19940204**

## Priority

- EP 94300823 A 19940204
- AU 5503294 A 19940209
- BR 9401023 A 19940429
- CA 2115005 A 19940204
- CN 94103825 A 19940324
- GB 9303513 A 19930222
- US 8726993 A 19930708

## Abstract (en)

The differential coupling and compounding power system of electric transmission storing type is used to drive gyroscopically the traffic vehicles, ships, air crafts, and other mechanic devices (or other industrial equipment). It is directly connected to an input shaft of a magnetic coupling driving device (M101) through a gyroscopic output shaft of an internal fire engine (or other gyroscopic power source) (P101) or through a transmission gear, belt, chain, or coupler (100). The magnetic coupling is a brush or brushless alternate or direct current dynamo through differential gear and engine output shaft coupling, or it is a dual end shaft of which either end is respectively connected to a turnable magnetic field and a turnable rotor so as to be controlled by a control device and to generate the driving function of a motor when current is input; or it is used to generate power and output power and produce the transmission coupling function through coupling torsional moment of output current, or to start an engine and to brake the reproducing power, especially to charge the battery through the turning speed difference between gyroscopic magnetic field and rotor when the engine is individually driving. To control the charging current, it can get the turning speed difference between current adjustment and loading. The engine can be in a constant speed or partially modulated speed so as to keep a higher speed and lower pollution work speed and its magnetic coupling driving device produces differential speed output; that is, it can be provided with a charging power for a battery (BT101) and a transmission coupling to improve the engine's efficiency and reduce the pollution. Rather, it can also be used as a driving motor solely for a gyroscopic output driving load or used together with the engine for a gyroscopic driving load. <IMAGE>

## IPC 1-7

**B60K 6/04**; **B60L 11/14**

## IPC 8 full level

**B60K 3/04** (2006.01); **B60K 6/26** (2007.10); **B60K 6/36** (2007.10); **B60K 6/365** (2007.10); **B60K 6/405** (2007.10); **B60K 6/52** (2007.10); **B60L 50/16** (2019.01); **B60K 17/35** (2006.01); **B60K 17/356** (2006.01)

## CPC (source: EP US)

**B60K 3/04** (2013.01 - EP US); **B60K 6/26** (2013.01 - EP US); **B60K 6/36** (2013.01 - EP US); **B60K 6/365** (2013.01 - EP US); **B60K 6/405** (2013.01 - EP US); **B60K 6/48** (2013.01 - EP); **B60K 6/52** (2013.01 - EP US); **B60K 17/3515** (2013.01 - EP US); **B60K 17/356** (2013.01 - EP US); **B60K 2006/262** (2013.01 - EP US); **B60K 2006/4833** (2013.01 - EP); **Y02T 10/62** (2013.01 - EP US); **Y10S 903/903** (2013.01 - EP); **Y10S 903/906** (2013.01 - EP); **Y10S 903/909** (2013.01 - EP); **Y10S 903/91** (2013.01 - EP); **Y10S 903/916** (2013.01 - EP); **Y10S 903/952** (2013.01 - EP)

## Citation (applicant)

WO 9220544 A1 19921126 - HEIDL ROLAND [DE], et al

## Citation (search report)

- [XY] US 4562894 A 19860107 - YANG TAI-HER [TW]
- [A] WO 8200928 A1 19820318 - JEFFERIES P [GB]
- [A] WO 9220544 A1 19921126 - HEIDL ROLAND [DE], et al
- [Y] US 5120282 A 19920609 - FJALLSTROEM BENGTT [SE]
- [A] GB 993185 A 19650526 - PAPST HERMANN
- [Y] WO 9108919 A1 19910627 - LARGUIER RENE [FR]
- [A] A.GAHLEITNER: "Stand der Entwicklung von Elektro-Strassenfahrzeugen 1989. Allgemeine Problemkreise, Antriebssysteme, Energiespeicher .", ÖZE, vol. 5, May 1989 (1989-05-01), pages 179 - 194

## Cited by

EP1626190A3; EP1927497A1; EP1325828A1; DE102015220430A1; US9550412B2; FR2832356A1; WO2010135486A3; US8167062B2; US8490726B2; US8925660B2

## Designated contracting state (EPC)

CH DE ES FR IT LI SE

## DOCDB simple family (publication)

**GB 2275309 A 19940824**; **GB 2275309 B 19971029**; **GB 9303513 D0 19930407**; AU 5503294 A 19950824; AU 676522 B2 19970313; BR 9401023 A 19951121; CA 2115005 A1 19950805; CA 2115005 C 20050412; CN 1077952 C 20020116; CN 1109152 A 19950927; DE 69418023 D1 19990527; DE 69418023 T2 19990812; EP 0666192 A1 19950809; EP 0666192 B1 19990421; ES 2131157 T3 19990716; US 5489001 A 19960206

## DOCDB simple family (application)

**GB 9303513 A 19930222**; AU 5503294 A 19940209; BR 9401023 A 19940429; CA 2115005 A 19940204; CN 94103825 A 19940324; DE 69418023 T 19940204; EP 94300823 A 19940204; ES 94300823 T 19940204; US 8726993 A 19930708